

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-2. (Canceled).

3. (Original) A recording / reproducing head for recording information in a dielectric material of a dielectric recording medium or reproducing information recorded in the dielectric material of the dielectric recording medium, the recording / reproducing head comprising:

a supporting member of a longitudinal shape which is long in one direction;

a projection portion disposed on one end in the one direction of said supporting member;

a first electrode, which is penetrated from the tip portion of said projection portion and disposed in the central portion of said projection portion, for applying an electric field to the dielectric material;

an electric conductor portion, which is disposed on a surface of said supporting member opposite to the dielectric material, for taking an electric connection with said first electrode; and

a second electrode disposed on a surface of said supporting member facing to the dielectric material.

4. (Original) The recording / reproducing head according to claim 3, wherein said recording / reproducing head is used as a device for reproducing the information from the dielectric recording medium on the basis of a scanning nonlinear dielectric microscopy method.

5.-6. (Canceled).

7. (Original) A recording / reproducing head for recording information in a dielectric material of a dielectric recording medium or reproducing information recorded in the dielectric material of the dielectric recording medium, the recording / reproducing head comprising:

a supporting member of a longitudinal shape which is long in one direction;
a projection portion disposed on one end in the one direction of said supporting member;
a first electrode, which is penetrated from the tip portion of said projection portion and disposed in the central portion of said projection portion, for applying an electric field to the dielectric material;
a substrate, which is disposed so as to surround said first electrode, for fixing the other end of said supporting member in the one direction;
an electric conductor portion, which is disposed on a surface of said supporting member opposite to the dielectric material, for taking an electric connection with said first electrode; and
a second electrode disposed on the surface of said supporting member facing to the dielectric material so as to surround said first electrode.

8. (Original) The recording / reproducing head according to claim 7, wherein said recording / reproducing head is used as a device for reproducing the information from the dielectric recording medium on the basis of a scanning nonlinear dielectric microscopy method.

9.-15. (Canceled).